Annual Drinking Water Quality Report

Alleghany County - Clifton Forge Distribution Area

INTRODUCTION

This Annual Drinking Water Quality Report for calendar year 2023 is designed to provide you with valuable information about your drinking water quality. We are committed to providing you with a safe and dependable supply of drinking water, and we want you to understand the efforts we make to protect your water supply. The quality of your drinking water meets all state and federal requirements administered by the Virginia Department of Health (VDH).

If you have questions about this report, want additional information about any aspect of your drinking water, or want to know how to participate in decisions that may affect the quality of your drinking water, please contact:

Mr. Matt Bowser, Assistant Director of Public Works - (540) 863-6650

GENERAL INFORMATION

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or from human activity. Substances (referred to as contaminants) in source water may come from septic systems, discharges from domestic or industrial wastewater treatment facilities, agricultural and farming activities, urban stormwater runoff, residential uses, and many other types of activities. Water from surface sources is treated to make it drinkable while groundwater may or may not have any treatment.

All drinking water, including bottled drinking water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

SOURCES AND TREATMENT OF YOUR DRINKING WATER

Your drinking water is purchased from the Town of Clifton Forge. Clifton Forge has a water treatment plant that treats water from Smith Creek. Water is distributed throughout the system by booster pumping stations, storage tanks, and distribution piping.

The Westgate system receives its water from the Town of Iron Gate distribution system. The Town of Iron Gate purchases water from Alleghany County. A booster pumping station and storage tank provide pressure to the Westgate system.

SOURCE WATER ASSESSMENTS

A source water assessment for the Town of Clifton Forge Water Treatment Plant was completed by the VDH. This assessment determined that the Town's water source may be susceptible to contaminants at varying concentrations and changing hydrologic, hydraulic, and atmospheric conditions that promote migration of contaminants from land use activities of concern within the assessment area. More specific information may be obtained by contacting the water system representative listed above. Our water source, Smith Creek, is unique in that there is no upstream industry, agriculture, or populated areas. This ensures a water supply of the highest possible quality.

QUALITY OF YOUR DRINKING WATER

Your drinking water is routinely monitored according to Federal and State Regulations for a variety of contaminants. The tables that follow show the results of our monitoring for the period of January 1, 2023 through December 31, 2023. The results in the table are from testing done in 2021 and 2022. The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old.

DEFINITIONS

In the table and elsewhere in this report you will find many terms and abbreviations you might not be familiar with. The following definitions are provided to help you better understand these terms:

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

Nephelometric Turbidity Unit (NTU) - A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Non-detects (ND): The substance was not found by laboratory analysis.

Parts per billion (ppb) or Micrograms per liter (µg/L): One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per million (ppm) or Milligrams per liter (mg/L): One part per million corresponds to one minute in two years or a single penny in \$10,000.

Picocuries per liter (pCi/L): A measure of the radioactivity in water.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Variances and exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

WATER QUALITY RESULTS

PWSID #2005160 - Cliftondale, Park Terrace, Cliftwood Manor, Wilson Creek, Sharon and

Triangle

			DISINFECTION	BYPRODUC	CTS	
Contaminant (Unit)	MCLG	MCL	Level Found (Range)	Violation	Date of Sample	Typical Source of Contamination
Total Trihalomethanes (ppb)	NA	80			By-product of drinking water chlorination	
Haloacetic Acids (ppb)	NA	60	10 No 2023		By-product of drinking water chlorination	
			DISINFECTION	N RESIDUAI	L	
Contaminant (Unit)	MRDLG	MRDL	Level Found (Range)	Violation Typical Sc		Typical Source of Contamination
Chlorine (ppm)	4	4	0.91 (0.64 – 0.91) No		Monthly	Water additive used to control microbes
			LEAD ANI	COPPER		
Contaminant (Unit)	MCLG	MCL	Level Found	Exceedance Date of Sample Typical Source of		Typical Source of Contamination
Lead (ppb)	0	AL=15	1.7 No samples exceeded the AL.	Corrosion of ho		Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	1.3	AL=1.3	0.093 No samples exceeded the AL.	No	2021	Corrosion of household plumbing systems; Erosion of natural deposits

PWSID #2005840 - Selma, Low Moor, and Valley Ridge areas

TV 5110 H20030	TO - Sell	ua, Low	widor, and vaney	Riuge area	S	
			DISINFECTION	N BYPRODUC	CTS	et et
Contaminant (Unit)	MCLG	MCL	Level Found (Range)	Violation	Date of Sample	Typical Source of Contamination
Total Trihalomethanes (ppb)	NA	80			By-product of drinking water chlorination	
Haloacetic Acids (ppb)	NA	60	12 No 2023		By-product of drinking water chlorination	
			DISINFECTION	ON RESIDUAL	Ĺ	*
Contaminant (Unit)	MRDLG	MRDL	Level Found (Range)	Violation	Date of Sample	Typical Source of Contamination
Chlorine (ppm)	4	4	0.73 (0.43 – 0.73)	No	Monthly	Water additive used to control microbes
			LEAD AN	D COPPER		
Contaminant (Unit)	MCLG	MCL	Level Found	Level Found Exceedance Date of Sample		Typical Source of Contamination
Lead (ppb)	0	AL=15	1.4 No samples exceeded the AL.	ceeded No 2021 Systems; Erosic		Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	1.3	AL=1.3	0.090 No samples exceeded the AL.	Corrosion of hous		Corrosion of household plumbing systems; Erosion of natural deposits

PWSID #2005950 – Wesgate

VV 31D #20037	JU - VV CS	gate				
			DISINFECTION	N BYPRODUC	CTS	
Contaminant (Unit)	MCLG	MCL	Level Found	Violation	Date of Sample	Typical Source of Contamination
Total Trihalomethanes (ppb)	NA	80	24 No 2022		2022	By-product of drinking water chlorination
Haloacetic Acids (ppb)	NA	60			By-product of drinking water chlorination	
			DISINFECTION	ON RESIDUA	L	
Contaminant (Unit)	MRDLG	MRDL	Level Found (Range)	Violation	Date of Sample	Typical Source of Contamination
Chlorine (ppm)	4	4	0.71 (0.57 – 0.71) No		Monthly	Water additive used to control microbes
			LEAD AN	D COPPER		
Contaminant (Unit)	MCLG	MCL	Level Found	Exceedance Date of Sample Typical Source o		Typical Source of Contamination
Lead (ppb)	0	AL=15	2 No samples exceeded the AL.	Corrosion of he		Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	1.3	AL=1.3	0.106 No samples exceeded the AL.	No	2021	Corrosion of household plumbing systems; Erosion of natural deposits

PWSID 2560100 - Clifton Forge

too – Cilit	on Forge	2				
	IN	ORGANIC & MET	TAL CONTA	MINANTS	S	
MCLG	MCL	Level Found	Violation	Date	Typical Source of Contamination	
2	2	0.016 to 0.017	No	2023	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	
10	10	0.074	No	2023	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	
4	4	0.28 to 0.71 No		Monthly	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories	
	**	RADIOLOGICAL	CONTAMI	NANTS		
MCLG	MCL	Level Found	Violation	Date	Typical Source of Contamination	
0	15	0.16	No	6/2020	Erosion of natural deposits	
0	50*	-0.49	No	6/2020	Decay of natural and man-made deposits	
0	5	0.20 No 6		6/2020	Erosion of natural deposits	
		LEAD AN	D COPPER			
MCLG	MCL	Level Found	Exceedance	Date	Typical Source of Contamination	
0	AL=15	No samples exceeded No 2022 sy		Corrosion of household plumbing systems; Erosion of natural deposits		
1.3	AL=1.3	0.101 No samples exceeded the AL.		2022	Corrosion of household plumbing systems; Erosion of natural deposits	
		DISINFECTION	BYPRODU	CTS		
MCLG	MCL	Running Average (Range) Violation		Date	Typical Source of Contamination	
NA	80	8			By-product of drinking water chlorination	
NA	60	7	No 20		By-product of drinking water chlorination	
		DISINFECTION	ON RESIDUA	L		
MRDLG	MRDL	Level Found (Range)	Violation	Date	Typical Source of Contamination	
4	4	0.20 to 1.600	No Daily Water additive use microbes		Water additive used to control microbes	
	MCLG 10 4 MCLG 0 0 0 1.3 MCLG NA NA MRDLG	MCLG MCL 2 2 10 10 4 4 MCLG MCL MCLG MCL 0 15 0 50* 0 50* MCLG MCL 0 AL=15 1.3 AL=1.3 MCLG MCL NA 80 NA 60 MRDLG MRDL	MCLG MCL Level Found 2 2 0.016 to 0.017 10 10 0.074 4 4 0.28 to 0.71 RADIOLOGICAL MCLG MCL Level Found 0 15 0.16 0 50* -0.49 0 5 0.20 LEAD AN MCLG MCL Level Found 0 AL=15 No samples exceeded the AL. 0 1.0 No samples exceeded the AL. DISINFECTION MCLG MCL MCLG MCL Running Average (Range) NA 80 8 NA 60 7 DISINFECTION MRDLG MRDL Level Found (Range)	NORGANIC & METAL CONTA	NORGANIC & METAL CONTAMINANTS	

				TURE	BIDITY ¹			
Contaminant (Unit)	MCLG	MCL	Highest Level Found	Lowest Monthly % <0.3 NTU		Violation	Date of Sample	Typical Source of Contamination
Turbidity (NTU)	NA	ТΤ	0.4	All monthly samples < 0.3 NTU 95 % of the time		No	Daily	Soil runoff
		7/	TOTAL	ORG	ANIC CARB	ON		
Contaminant	MCLG	MCL	Level Range		Violation	Date	Typical Source of Contamination	
Total Organic Carbon	NA	ТТ	ND		No	Quarterly	Naturally penvironme	oresent in the nt
			UNREGUI	ATEL	CONTAMI	NANT		
Contaminant (Unit)	MCLG	MCL	Level Found		Exceedance	Date	Typical Source of Contamination	
Sodium (ppm)	NA	NA	1.62		NA	2023		natural deposits; De- unoff; Water softeners

RESULTS INFORMATION

We constantly monitor for various contaminants in the water supply to meet all regulatory requirements. The table lists only those contaminants that had some level of detection. Many other contaminants have been analyzed but were not present or were below the detection limits of the lab equipment.

Maximum Contaminant Levels (MCLs) are set at very stringent levels by the U.S. Environmental Protection Agency. In developing the standards, EPA assumes that the average adult drinks 2 liters of water each day throughout a 70-year life span. EPA generally sets MCLs at levels that will result in no adverse health effects for some contaminants or a one-in-ten-thousand to one-in-a-million chance of having the described health effect for other contaminants.

Sodium - There is presently no established standard for sodium in drinking water. An EPA advisory recommends water containing 30 to 60 mg/L should not be used as drinking water due to esthetics such as taste and color. Water containing more than 20 mg/L should not be used by persons whose physician has placed them on severely restricted sodium diets.

LEAD INFORMATION

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Alleghany County is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791) or at http://www.epa.gov/safewater/lead.

VIOLATION INFORMATION

Monitoring and Reporting Violations

During the October 2023 monitoring period, we did not complete all required monitoring for coliform or disinfectant residual. Therefore, we cannot be sure of the quality of our drinking water during that time. The health effects are unknown.

During the month of August 2023, we did not collect any routine samples for disinfection byproducts and therefore cannot be sure of the quality of your drinking water during that time. We are required to collect these samples each year in August but didn't collect the samples until November 2023.

Variance – The Town of Clifton Forge operates with a continuing variance to the Virginia *Waterworks Regulations*. This variance waives Clifton Forge from the requirement of having two operators at the plant when it is in actual operation. A cell phone is provided, so the on duty operator can check in with the operator in responsible charge or the police department.

This Drinking Water Quality Report was prepared by the Alleghany County Department of Public Works with the assistance and approval of the Virginia Department of Health. Please call if you have questions.

Signature:	Date: 5/6/24
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